

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: N. Morishita et al. : Art Unit:  
Serial No.: To Be Assigned : Examiner:  
Filed: Herewith :  
FOR: COOLING METHOD FOR :  
ASSEMBLED BATTERIES

Continuation Of:

Applicant: N. Morishita et al. : Art Unit: 1745  
Serial No.: 08/939,299 : Examiner: J. Crepeau  
Filed: September 29, 1997 :  
FOR: COOLING METHOD FOR :  
ASSEMBLED BATTERIES

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents  
Washington, D.C. 20231

S I R :

Prior to examination, please amend the above-identified application as follows:

IN THE TITLE:

Please delete the title in its entirety and substitute therefor:

BATTERY SYSTEM

IN THE SPECIFICATION:

Please insert the following the paragraph on page 1, line 5:

This application is a Continuation of Serial No. 08/939,299, filed September 29, 1997, which is a Continuation-In-Part of U.S. Patent No. 5,747,186.

IN THE CLAIMS:

Please cancel claims 1-3 and add new claims 4-7 as follows:

- 1           4.     (Newly Added) A battery system comprising:
- 2                 a first battery module; and
- 3                 a second battery module;
- 4                 said first battery module and said second battery module
- 5     arranged to receive flow of cooling medium in parallel;
- 6                 said first battery module and said second battery module each
- 7     comprised of a plurality of cells,
- 8                 said cells in said first battery module held together, said cells in
- 9     said second battery module held together,
- 10                said cells in said first battery module held together independently
- 11     of said cells in said second battery module;
- 12                at least two of said cells in said first module including convex
- 13     portions which coincide to form an opening through which said cooling
- 14     medium flows;

15                   at least two of said cells in said second module including convex  
16 portions which coincide to form an opening through which said cooling  
17 medium flows.

1                   5.     (Newly Added) A battery system according to claim 1  
2 wherein said convex portions are arranged for flow of said cooling medium  
3 vertically towards positive and negative terminals arranged on respective tops  
4 of said cells.

1                   6.     (Newly Added) A battery system according to claim 1  
2 wherein said convex portions are arranged for flow of said cooling medium  
3 horizontally relative to positive and negative terminals arranged on respective  
4 tops of said cells.

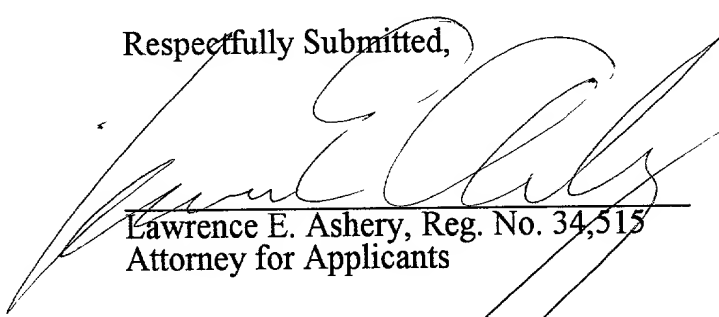
1                   7.     (Newly Added) A battery system according to claim 4,  
2 wherein said first and second battery module are held to each other.

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REMARKS

Claims 4, 5, 6 and 7 have been added. Claim 4 is supported by Figure 3, Figure 5, Figure 7 and Figure 8 of the original application. Claim 5 is supported by Figure 3. Claim 6 is supported by Figure 5. Claim 7 is supported by Figure 3. No new matter has been added.

Respectfully Submitted,



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Kathleen Libby

091530-080301

VERSION WITH MARKINGS TO SHOW CHANGES MADE

TITLE:

[COOLING METHOD FOR ASSEMBLED BATTERIES]  
BATTERY SYSTEM

SPECIFICATION:

Please insert the following the paragraph on page 1, line 5:

This application is a Continuation of Serial No. 08/939,299, filed  
September 29, 1997, which is a Continuation-In-Part of U.S. Patent No.  
5,747,186.

CLAIMS:

Claims 1-3 have been cancelled.

Claims 4-7 have been added.

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